

PETER OAS

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1017 NE Rambling Ln Apt 1, Bend, OR 97701

~ Aerospace engineering graduate with several years of hands-on aircraft maintenance experience ~

EDUCATION AND CERTIFICATION

B.S. Aerospace Engineering
University of Maryland, 2014

M.S. Aerospace Engineering
University of Maryland, 2017

FAA-Certificated A&P Mechanic
2019

PROFESSIONAL EXPERIENCE

Aircraft Maintenance Technician

Summer 2019 - Present

Leading Edge Aviation

Bend, OR

- Performed maintenance on the following platforms: Cessna 172, Beechcraft Bonanza F33A, Baron B55, Robinson R22, R44, Bell 206B3, 206L3, 407GX, 505, Enstrom 480B
- Lead technician for major maintenance on Robinson helicopters such as overhauls and component swaps
- Inspected airframe and powerplant systems, noting and communicating defects, documenting all work performed via logbook and computer entries
- Utilized maintenance manuals, parts catalogs, and technical publications to ensure proper procedures and troubleshooting practices
- Liaison between maintenance department and flight school to guide planning and aircraft availability
- Primary contact for pilots to answer questions about aircraft abnormalities in order to determine airworthiness
- Coordinated flight tests and rode along, often utilizing track and balance equipment to measure and correct vibration problems with rotor systems
- Trained new mechanics on company policy, tribal knowledge, and proper maintenance practices
- Created new inspection checklists and modified existing checklists to optimize workflow
- Developed computer-based tools using Excel and Python to expediate various tasks including weight and balance and cable tension variation with temperature

Construction Crew Leader

Fall 2014 - Summer 2015

Americorps/Habitat for Humanity

Kansas City, MO

- Led and instructed diverse groups of volunteers in various construction tasks including framing, decking, trim, siding, painting, sheetrock, and landscaping
- Regularly reorganized and cleaned two construction trailers and a 3000+ sq. ft. warehouse to improve workflow on the jobsite

RESEARCH EXPERIENCE

Graduate Research Assistant

Fall 2015 - Summer 2017

Alfred Gessow Rotorcraft Center

College Park, MD

- Researched helicopter flight characteristics including dynamic inflow, coaxial rotor wake, rotor blade deflections, and flight dynamics, using MATLAB and Fortran extensively on a Linux-based system
- Designed and oversaw construction of a 3D-printed polymer fuselage to enshroud sensitive equipment of a rotor test stand during 200+ mph wind tunnel experiments
- Modeled in CAD all parts of a 24-hour hovering helicopter using CATIA for a rigorous team project. Our report won first place in the prestigious Vertical Flight Society Student Design Competition

Undergraduate Research Intern

Spring 2012 - Summer 2014

Alfred Gessow Rotorcraft Center

College Park, MD

- Performed maintenance on a rotor test stand used to gather performance data for rotorcraft blades
- Employed CNC machines and other lab tools to construct Mach-scale composite rotor blades with embedded wire sensors and performed tests to evaluate the precision of the sensors
- Utilized LabVIEW, MATLAB, and Excel to correlate sensor output data to blade deflections
- Presented the wire sensor research at the Spring 2013 AIAA Regional Student Conference